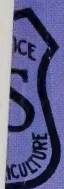


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USDA Forest Service

**State and Private Forestry
Forest Health Protection**

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Forest Health Technology Enterprise Team

Caring for the Land and Serving People



Forest Health Technology Enterprise Team

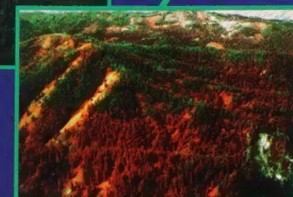
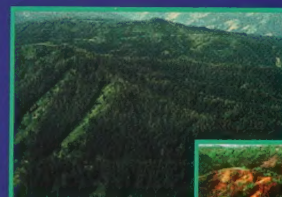
Cost-reimbursable Services:

- Remote Sensing and Image Analysis
- Software Development
- Survey Design and Analysis
- GIS and Spatial Analysis
- Database Design and Development
- Data Visualization
- Analysis in Support of NEPA
- Rulebase Development
- Technical Training
- Instruments for Environmental Monitoring
- Development and Integration of Analytical Methods
- Photographic Documentation
- Additional consulting in...
 - Web Site Development
 - Control/Eradiation/Suppression of Forest Pests
 - Pesticide Application
 - Pest Impact Assessment
 - Statistics

United States
Department of
Agriculture



Insect and pathogen models predict future forest conditions that can be displayed by the Stand Visualization System (SVS)



Digital color infrared imagery better emphasizes Tussock Moth damage than does natural color film



Simulation models predict impacts of insects and pathogens on forest health



Biopesticides are less harmful to non-target species than conventional chemical alternatives



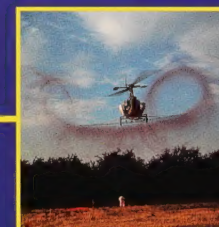
Sonic Distance and Ranging (SODAR) equipment measures wind speed and direction above forest canopies



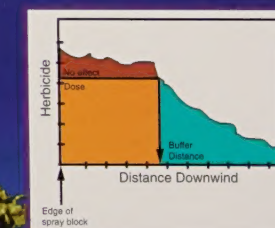
INFORMS integrates data, maps, and models in an easy-to-use interface



Biological control agents help manage exotic pests such as the hemlock woolly adelgid

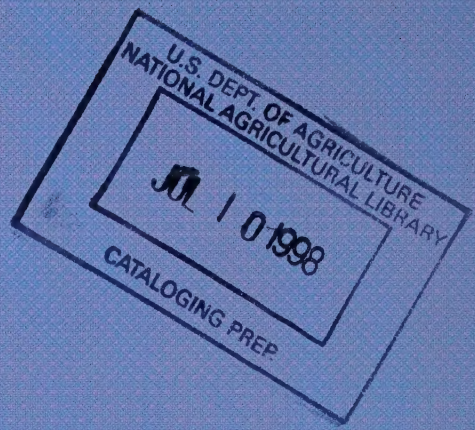


Improved spray technology results in more accurate delivery of pesticides



The SpraySafe Manager assists in designing more effective spraying operations nationwide

- Ben**
- Improved assessment of pathogen impacts on forest systems and surrounding communities
 - Better resource allocation and models to quantify pathogen impacts on forest planning processes
 - Improved decision-making using decision support systems that integrate analytical tools and different types of data.
 - Effective distribution of current and consistent forest health information and products.
 - Effective means for communicating the outcomes of management decisions and natural processes through visual displays of data.
 - Improved management of technology development programs by assuring quality and consistency, providing accountability, and transferring technology effectively.
 - Availability of pesticides that are more target-specific and less harmful to the environment.
 - Availability of biological control agents for suppression of exotic pests.
 - Better understanding of the impacts of pesticides on non-target species and ecosystems.
 - Accurate placement and appropriate dosage of pesticides and herbicides through the use of spray simulation models and improved delivery systems.



Overview:

The Forest Health Technology Enterprise Team was created in February 1995 by the Deputy Chief for State and Private Forestry, USDA Forest Service, to develop and deliver forest health technology services to field personnel in public and private organizations in support of the Forest Service's land ethic, to "promote the sustainability of ecosystems by ensuring their health, diversity, and productivity."

The Enterprise Team has two components. The core component, sponsored by Forest Health Protection, supports the Forest Service in meeting its legal mandate for the protection of forest health. The entrepreneurial component builds the team's capacity to fulfill its mission by providing services on a cost-reimbursable basis.

Mission:

To foster the development and use of technologies to protect and improve the health of America's forests.



For More Information:

USDA Forest Service

Team Leader, Forest Health Technology Enterprise Team

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DG Mailbox: FHTET:w04a

WWW: <http://162.79.41.7/fhtet/>

Partners:

Remote Sensing Applications Center (RSAC)

Missoula Technology Development Center (MTDC)

Cooperators:

Forest Service:

Ecosystem Management Analysis Center (EMAC)

Forest Health Monitoring

Forest Health Protection

Regional Staffs

Forest Insect and Disease Research (FIDR)

Forest Management Service Center (FMSC)

Forest Management Information Systems &

Telecommunications (IS&T)

Intermountain Fire

Science Laboratory

Intermountain Research Station

International Forestry

North Central Forest

Experiment Station

Northeastern Area

Northeastern Forest Experiment Station

Pacific Northwest

Research Station

Pacific Southwest Forest and

Range Experiment Station

Rocky Mountain Forest and

Range Experiment Station

Southern Research Station

Dixie National Forest

George Washington

National Forest

Jefferson National Forest

Manti-LaSal National Forest

Monongahela National Forest

Ouachita National Forest

Wallowa-Whitman

National Forest

Wasatch-Cache National Forest

Universities:

University of Arizona

University of Delaware

University of Florida

University of Georgia

University of Illinois

University of Massachusetts

University of Melbourne

University of Montana

University of Orleans, France

University of Vermont

Colorado State University

Cornell University

Marshall University

Memphis State University

Michigan State University

Michigan Technological

University

Northeastern Forestry

University, Harbin, PRC

Ohio State University

Oregon State University

Purdue University

Texas A&M University

Utah State University

Virginia Polytechnic Institute

and State University

Weber State University

West Virginia University

International Agencies:

Anhui Forest Biological

Control Center, China

British Columbia Ministry

of Forestry, Canada

Chinese Academy of Forestry,

Research Institute of

Forest Protection

Empresa Brasileira

Pesquisa Agropecuária

(EMBRAPA), Brazil

Forestry Canada

Guangdong Provincial Pest

Control Station, China

Instituto Nacional

de Investigaciones

Forestales Agropecuarias

(INIFAP), Mexico

International Institute of

Biological Control (IIBC)

Kenya Forest Health

Management Center

New Zealand Forest Research

Institute (NZ-FRI)

Other U.S. Government Agencies:

Agricultural Research

Service (ARS)

Animal and Plant Health

Inspection Service (APHIS)

Bureau of Land

Management (BLM)

Department of Defense

Department of Energy

Department of Interior,

National Park Service

National Weather Service (NWS)

United States Air Force (USAF)

Spray Drift Task Force

United States Geological

Survey (USGS)

Private Companies:

Abbott Laboratories

Battelle Pacific Northwest

Laboratory

biosys, Inc.

DuPont Corporation

Finch-Pruyn and Co.

Gladfelter Paper Co.

Hercon, Inc.

Lincoln Ventures

Loveland Industries

Rohm and Haas Co.

States:

Connecticut Agricultural

Experiment Station

Florida Division of Forestry

Maryland Department

of Agriculture

North Carolina Department

of Agriculture

Pennsylvania Bureau of Forestry

Utah Department of Agriculture

Virginia Department

of Agriculture and

Consumer Services

Contractors:

Autometric Service Co. (ASC)

Continuum Dynamics, Inc. (CDI)

DSL Consulting

ESSA Technologies, Ltd.

Integrated Technical Engineering

and Computer Services

International, Inc. (INTECS)

Management Assistance

Corporation of

America (MACA)

Phero Tech, Inc.

Resource Technology Institute

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